

## CLAIMS:

1. Station (1) comprising a rake receiver (3) with a finger (34), which finger (34) comprises a Hadamard transformer (62).
2. Station (1) as defined in claim 1, wherein the finger (34) comprises a  
5 descrambling section (50) and a despreading section (60), which despreading section (60) comprises the Hadamard transformer (62).
3. Station (1) as defined in claim 2, wherein the descrambling section (50)  
10 comprises a multiplier (52) for multiplying a finger input signal with a complex conjugated scrambling code for descrambling the finger input signal, and wherein the despreading section (60) further comprises a serial-to-parallel converter (61) for serial-to-parallel  
converting a descrambled signal, which serial-to-parallel converter (61) comprises  
downsamplers (71,72,73) coupled to inputs of the Hadamard transformer (62) and comprises  
a selector (63) for generating despread symbols per channel, which selector (63) is coupled  
15 to outputs of the Hadamard transformer (62).
4. Station (1) as defined in claim 3, wherein the rake receiver (3) further  
comprises:
  - a further finger (35);
  - 20 - a delaying section (32) for delaying a frequency converted signal and for  
generating the finger signal destined for the finger (34) and a further finger signal destined  
for the further finger (35); and
  - a synchronization section (31) for receiving the frequency converted signal  
and for in response controlling the delaying section (32).
- 25 5. Station (1) as defined in claim 1, wherein the station (1) is a high-speed  
downlink packet access station (1) in a universal mobile telecommunication system, with a  
number of de-channelization codes used being at least ten percent of a despreading factor  
used.

6. Station (1) as defined in claim 5, wherein the despreading factor used is equal to sixteen, with the maximum possible number of de-channelization codes used being equal to five, ten or fifteen.
- 5 7. Rake receiver (3) for use in a station (1) and comprising a finger (34), which finger (34) comprises a Hadamard transformer (62).
8. Finger (34) for use in a rake receiver (3), which finger (34) comprises a  
10 Hadamard transformer (62).
9. Method for despreading a descrambled signal, which method comprises a Hadamard transforming step.
- 15 10. Processor program product for despreading a descrambled signal, which processor program product comprises a Hadamard transforming function.